

FIG. 1

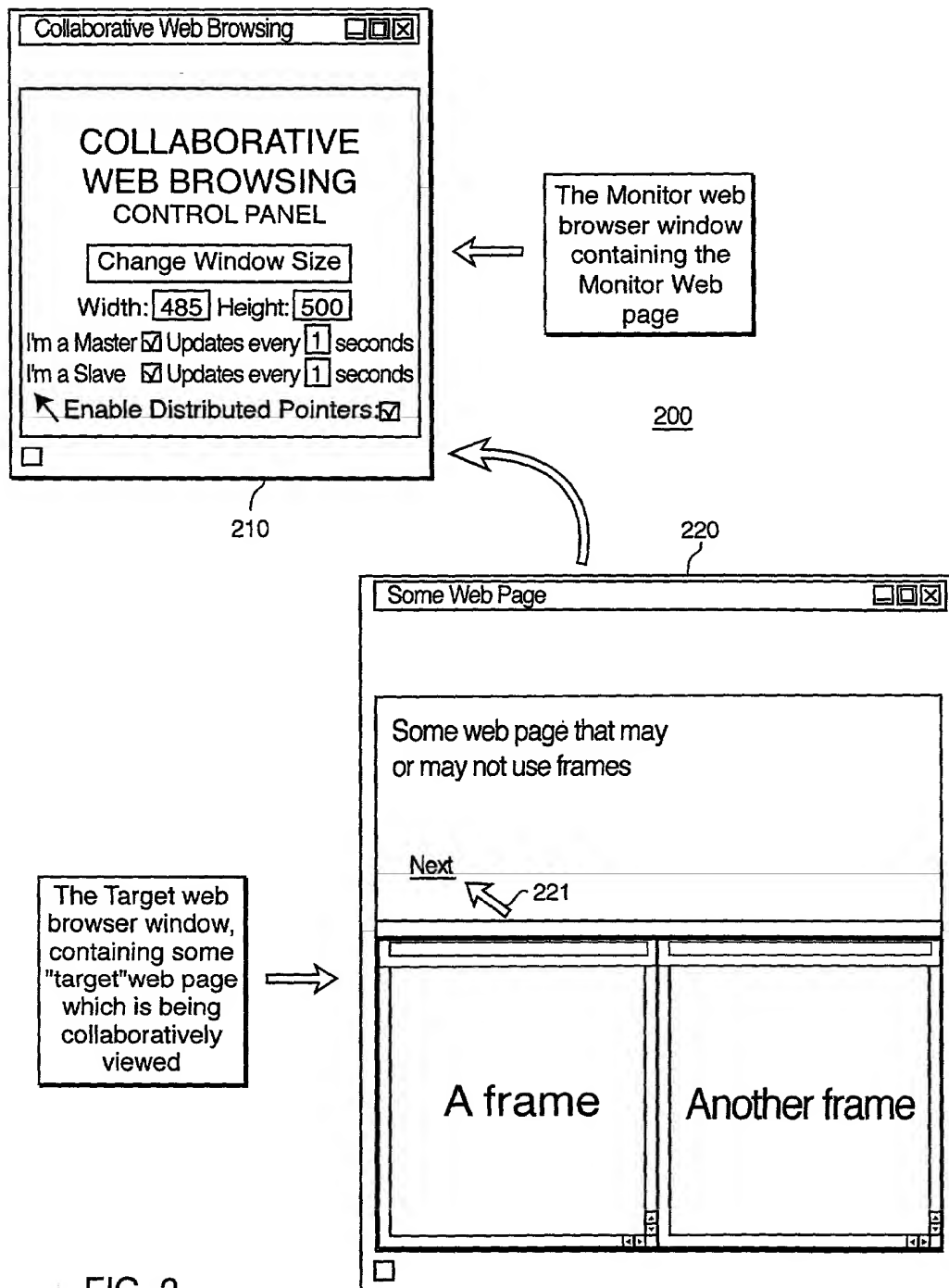


FIG. 2

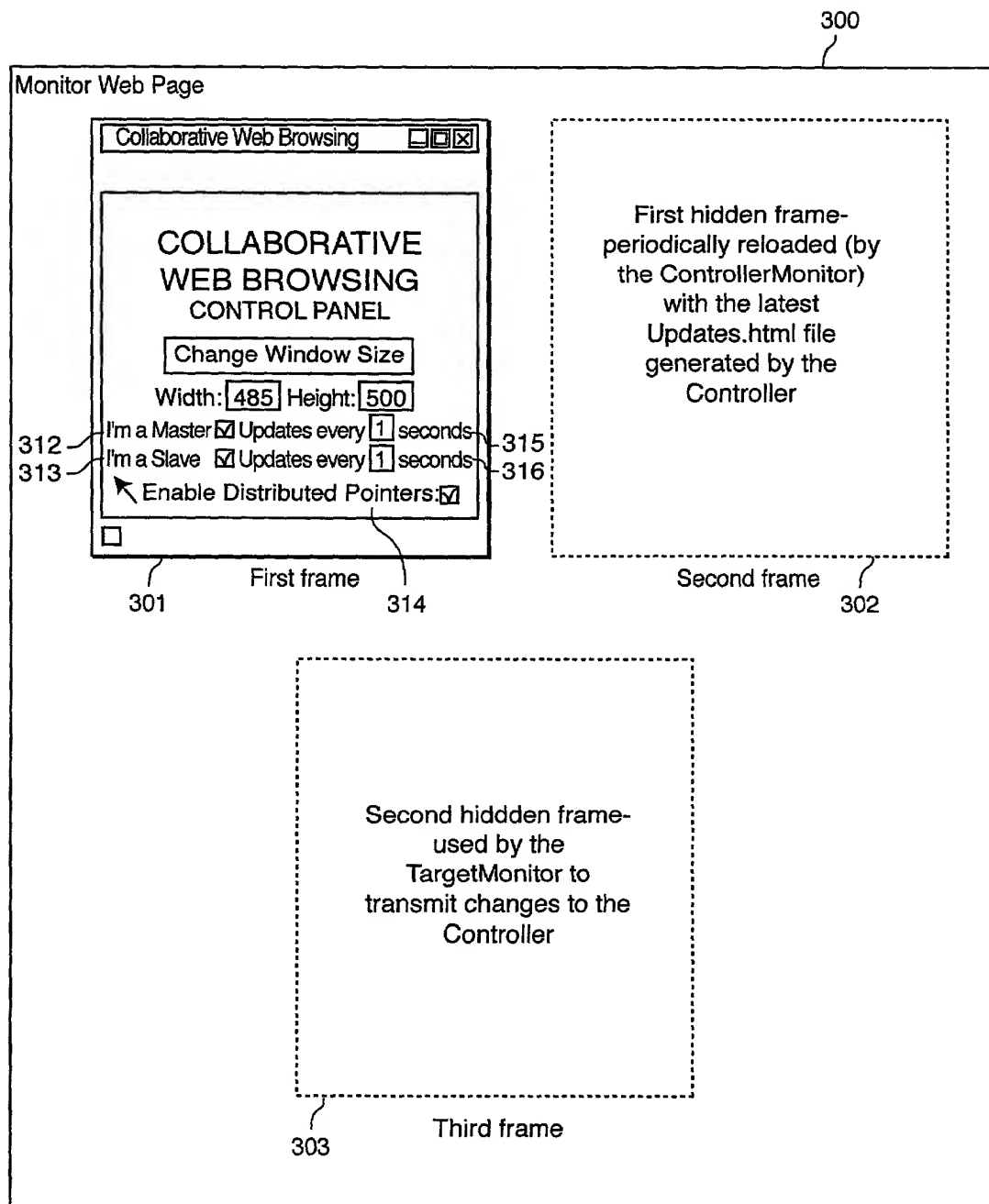


FIG. 3

401 { GET
/servlet/CWControllerServlet?cmd=doUpdates&W=485&H=500&S=http%3A/harm.meitca.com/wwwwelevatorcom/&L=0&T=0&P=hnull/null&fn=P.Z[0]-f1&fn=P.Z[1].Z[0]-f2&fn=P.Z[1].Z[1]-f3&fn=P.Z[1].Z[1]-f4&f1.W=0&f1.H=0&f1.S=http%3A/harm.meitca.com/wwwwelevatorcom/btn2.htm&f1.L=0&f1.T=0&f1.P=v77/61&f2.W=0&f2.H=0&f2.S=http%3A/harm.meitca.com/wwwwelevatorcom/design/layout/head.htm&f2.L=0&f2.T=0&f2.P=v155/15&f3.W=0&f3.H=0&f3.S=http%3A/harm.meitca.com/wwwwelevatorcom/design/layout/gpm3_3.htm&f3.L=287&f3.T=1560&f3.P=v355/1740&f4.W=0&f4.H=0&f4.S=http%3A/harm.meitca.com/wwwwelevatorcom/design/layout/Default.htm&f4.L=0&f4.T=0&f4.P=hnull/1740 HTTP/1.0

402 { The same request, with line breaks inserted for readability

GET
/servlet/CWControllerServlet?
cmd=doUpdates
&W=485
&H=500
&S=http%3A/harm.meitca.com/wwwwelevatorcom/
&L=0
&T=0
&P=hnull/null
&fn=P.Z[0]-f1
&fn=P.Z[1].Z[0]-f2
&fn=P.Z[1].Z[1]-f3
&fn=P.Z[1].Z[1]-f4
&f1.W=0
&f1.H=0
&f1.S=http%3A/harm.meitca.com/wwwwelevatorcom/btn2.htm
&f1.L=0
&f1.T=0
&f1.P=v77/61
&f2.W=0
&f2.H=0
&f2.S=http%3A/harm.meitca.com/wwwwelevatorcom/design/layout/head.htm
&f2.L=0
&f2.T=0
&f2.P=v155/15
&f3.W=0
&f3.H=0
&f3.S=http%3A/harm.meitca.com/wwwwelevatorcom/design/layout/gpm3_3.htm
&f3.L=287
&f3.T=1560
&f3.P=v355/1740
&f4.W=0
&f4.H=0
&f4.S=http%3A/harm.meitca.com/wwwwelevatorcom/design/layout/Default.htm
&f4.L=0
&f4.T=0
&f4.P=hnull/1740
HTTP/1.0

FIG. 4

```

<HTML><HEAD>
<!-- This file was generated by the Controller on the host web server -->
<TITLE>Collaborative Web Browsing: Hidden Updates Frame -- Updates.html</TITLE>
<META HTTP-EQUIV="Cache-Control" CONTENT="no-cache">
<META HTTP-EQUIV="Pragma" CONTENT="no-cache">
<SCRIPT LANGUAGE="Javascript">
var updates_sequence_number = 13;

var distributedPointerHTML = <!-- HTML code for Distributed Pointer image -->

function doOnLoad() {
  if ( Cannot access Monitor Control Panel web page )
    alert("Cannot find Slave Control Panel window");
    return; // Try again after next updates interval
}

if (Monitor Control Panel web page has an older commands_sequence_number) {
  // Apply new updates

  // Make sure the Slave Target browser window is accessible
  if (Slave Target browser window is not accessible) {
    alert("Could not find Slave window");
    Disable Slave updates in the Monitor Control Panel;
    return;
  }
  if (Current Slave Target window dimensions do not match new values) {
    Close Slave Target browser window;
    Re-open Slave Target browser window with new width and height dimensions;
  }
  if (URL of web page in Slave Target window does not match new URL) {
    Load new URL into Slave Target browser;
    return; //wait for Slave Target browser to load web page at new URL
  }
  if (new Slave Target window document does not use frames) {
    if (Slave Target window's horizontal scrollbar position is old)
      Update Slave Target window's horizontal scrollbar position;
    if (Slave target window's vertical scrollbar position is old)
      Update Slave Target window's vertical scrollbar position;
  } else {
    if (URL of web page in Slave Target window's first frame is old) {
      Fetch web page at new URL into Slave Target window's first frame;
      return; //wait for load
    }
    if (horizontal scrollbar position in Slave Target window's first frame is old)
      Update horizontal scrollbar position in Slave Target window's first frame;
    if (vertical scrollbar position in Slave Target window's first frame is old)
      Update vertical scrollbar position in Slave Target window's first frame;
    if (existence, visibility or position of Distributed Pointer in Slave Target
      window's first frame is old) {
      Update Distributed Pointer info for Slave Target window's first frame;
    }
  }
  <!-- and so on for sibling frames and any nested frames -->
}

Monitor Control Panel web page's updates_sequence_number = updates_sequence_number;
}

</SCRIPT>
</HEAD>
<BODY onLoad="doOnLoad()">
<b>Updates.html for updates_sequence_number 13</b>
</BODY></HTML>

```

FIG. 5

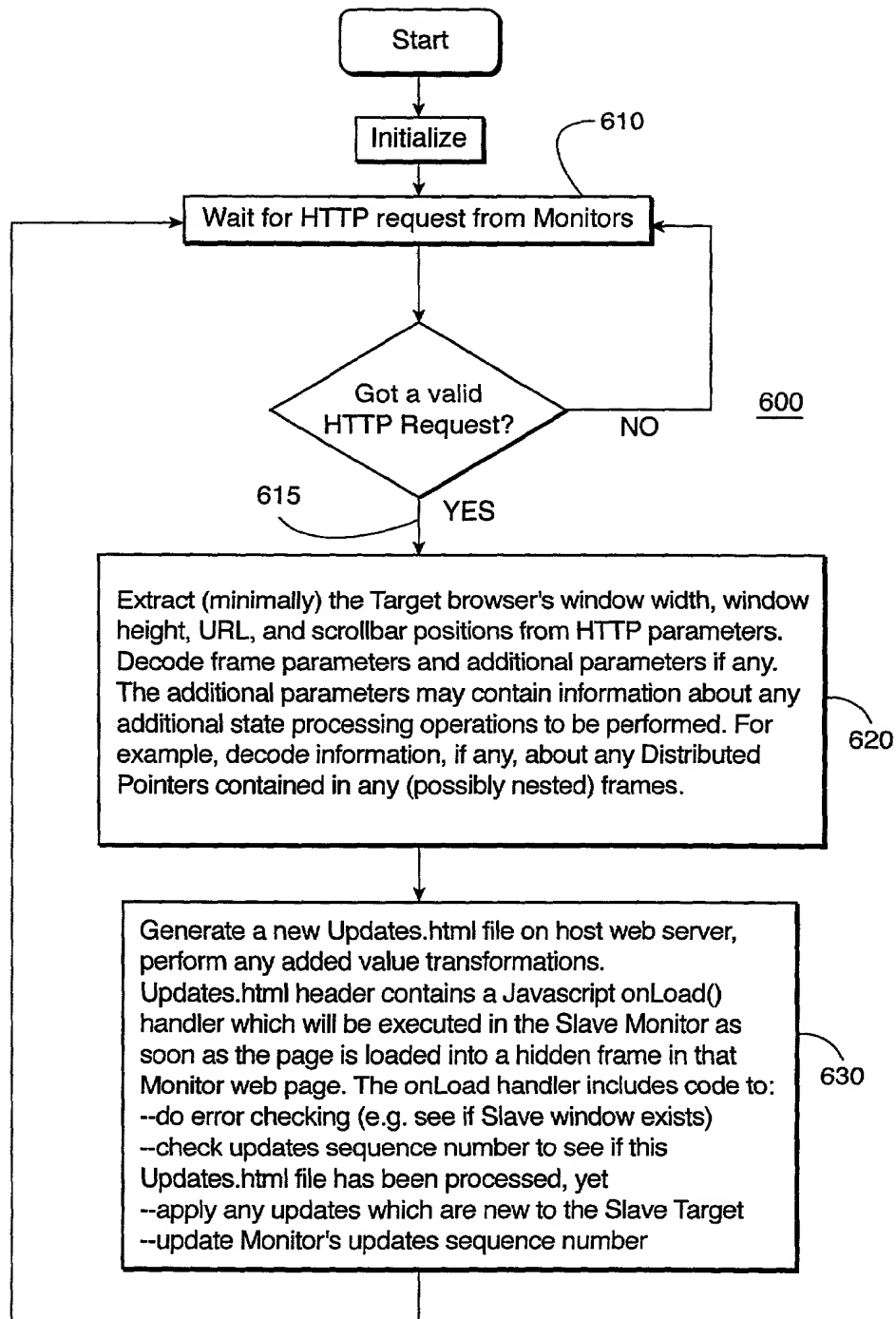


FIG. 6

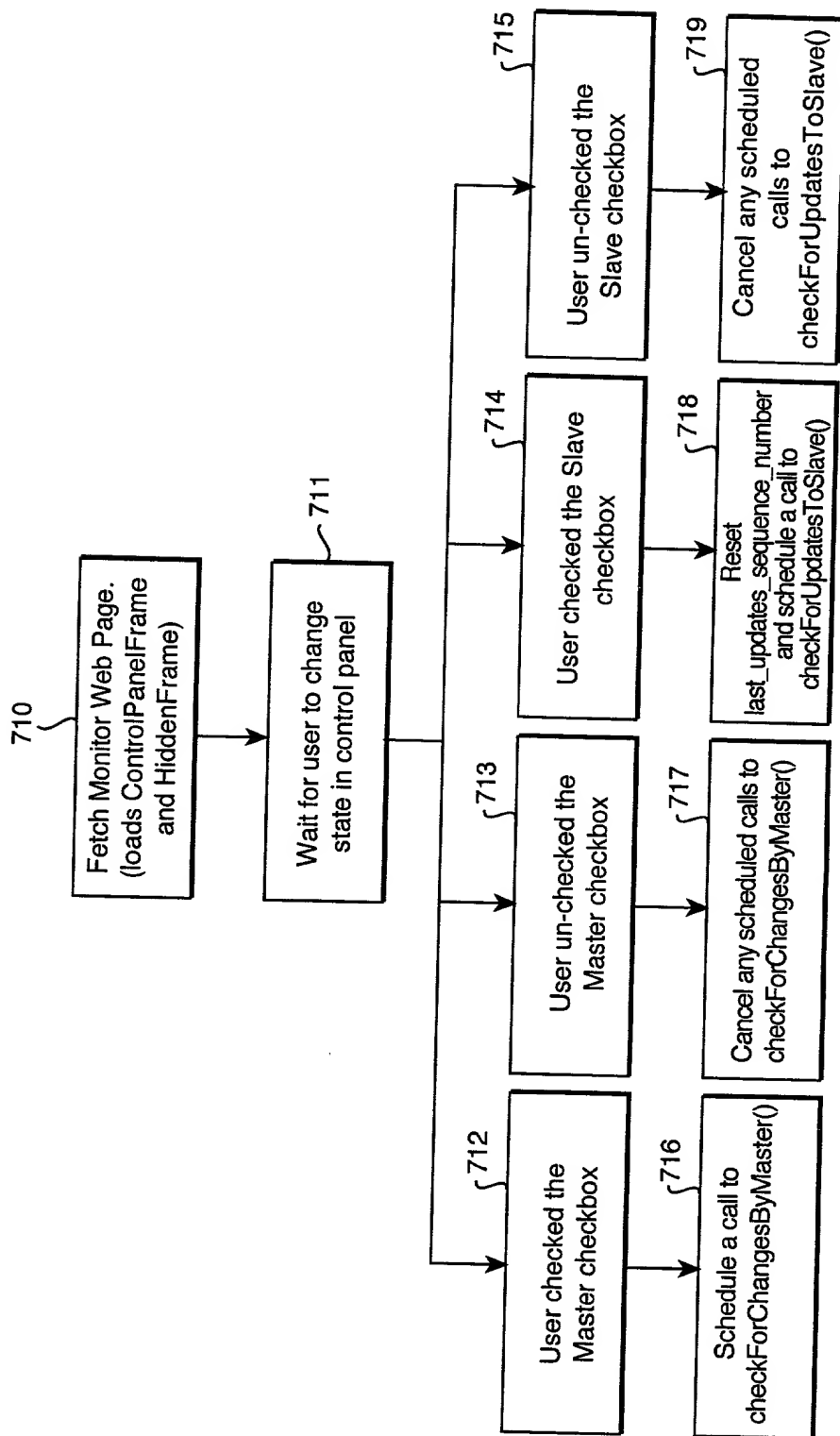


FIG. 7a

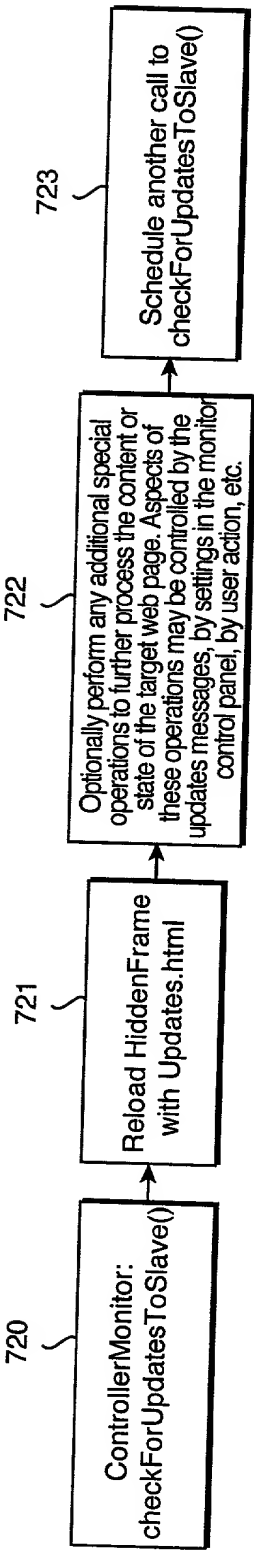


FIG. 7b

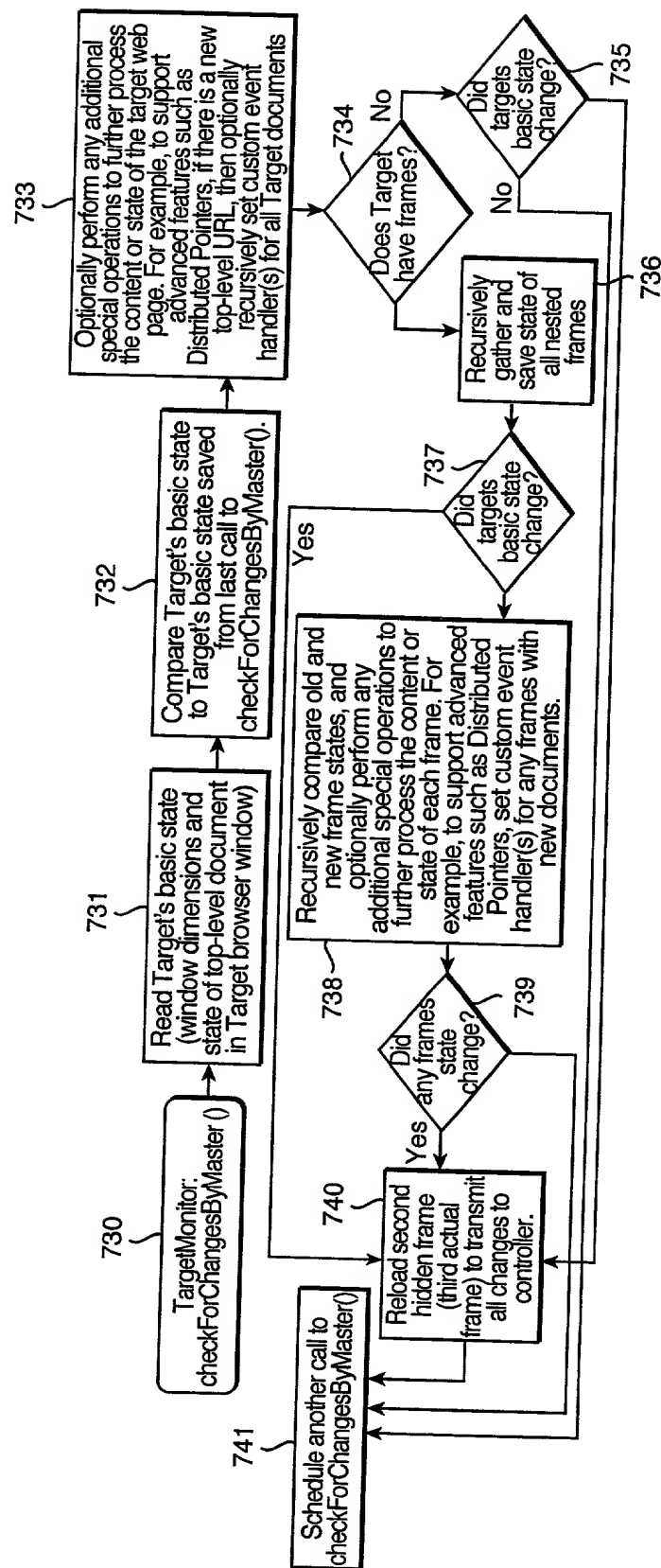


FIG. 7C

